

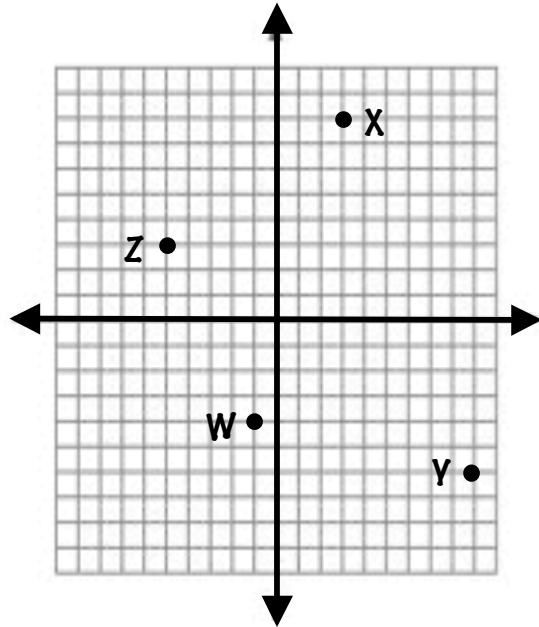
Name \_\_\_\_\_ Date \_\_\_\_\_ Hour \_\_\_\_\_

## Algebra Chapter 4 Practice Test

### 4.1 Coordinates and Scatter Plots

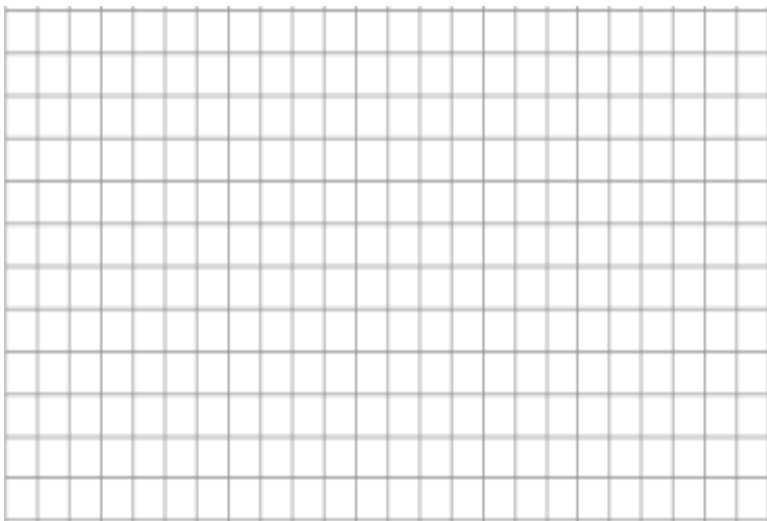
Name the ordered pair and quadrant for each point on the coordinate plane. (1 point each)

- |      | <u>Ordered Pair</u> | <u>Quadrant</u> |
|------|---------------------|-----------------|
| 1) W | _____               | _____           |
| 2) X | _____               | _____           |
| 3) Y | _____               | _____           |
| 4) Z | _____               | _____           |



5) Make a scatter plot of the given data. Put TV Size on the horizontal axis. (5 points)

TV Size (in.)	19	27	32	36
Price	\$179	\$349	\$499	\$639



6) Predict the price of a TV that is 24 inches. (1 point)

## 4.2 Rewrite Equations in Function Form

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Rewrite each equation in function form. (2 points each)

7)  $2x + 3y = 6$

8)  $-3x + y = 12$

9)  $y + 2 = 3x$

10)  $5x + 5y = 19$

11)  $2x - 6y = 2$

12)  $-3y - 7x = 42$

13)  $5x + 9y = 18$

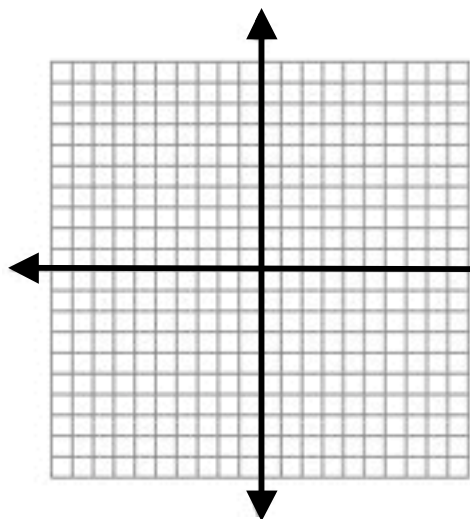
14)  $6x = 3y + 21$

## 4.2 Graph Equations Using an X-Y Table

Complete the X-Y Table then graph. (4 points each)

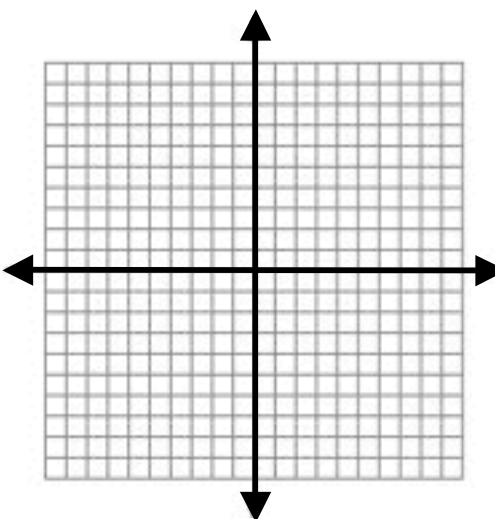
15)  $y = 4x - 1$

x	y
2	
0	
-2	



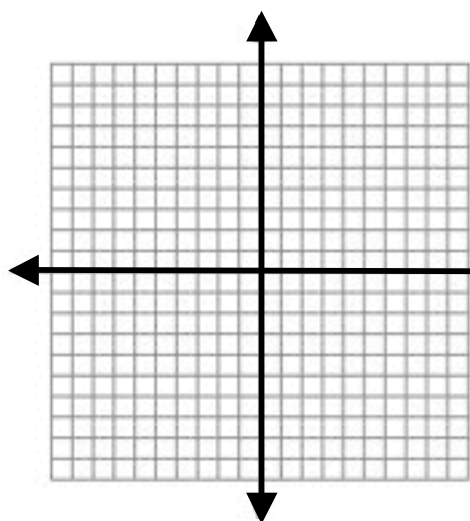
16)  $x - 2y = 6$

x	y
2	
0	
-2	



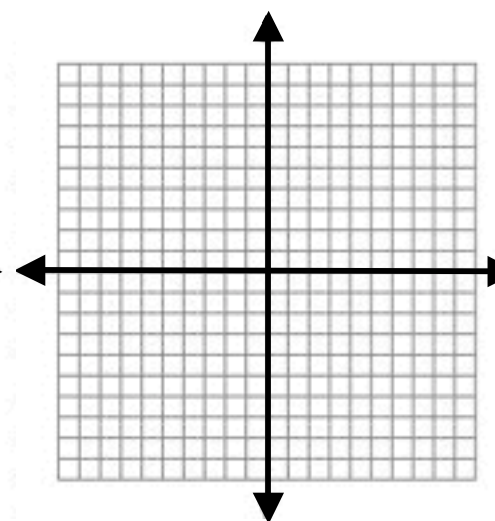
17)  $y = 4$

x	y
2	
0	
-2	



18)  $x = -7$

x	y

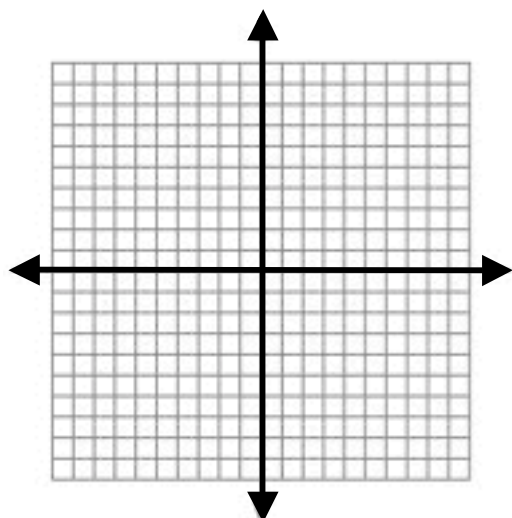


### 4.3 Graphing Using X & Y Intercepts

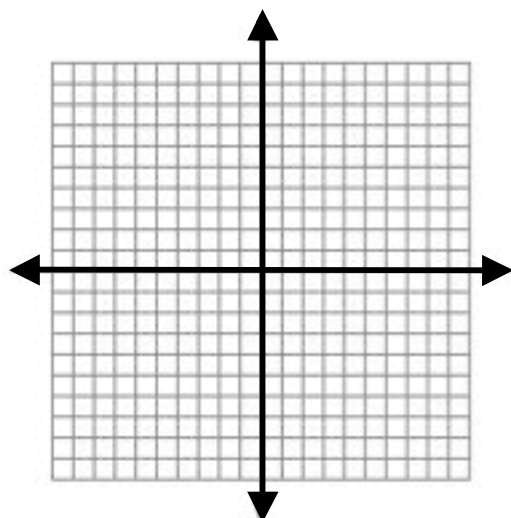
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Find the x and y intercept for each, then graph. (4 points each)

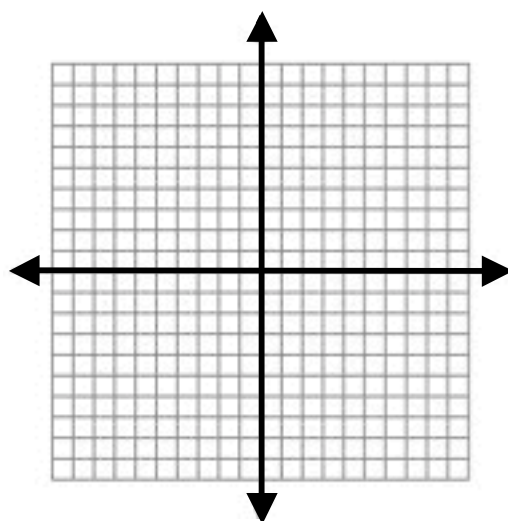
19)  $y = -6 + 3x$



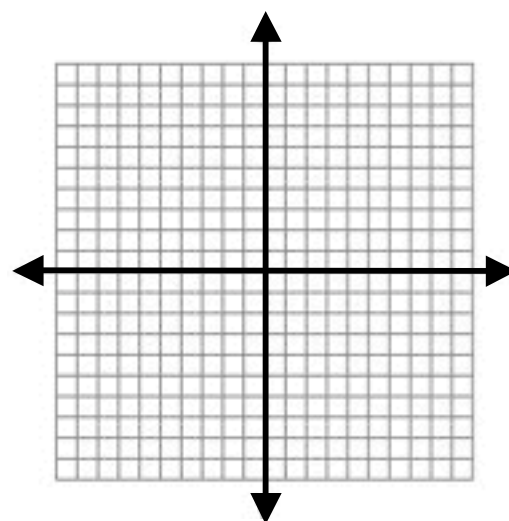
20)  $2x + 4y = 16$



21)  $-4x + 3y = 24$



22)  $y = 4x + 8$

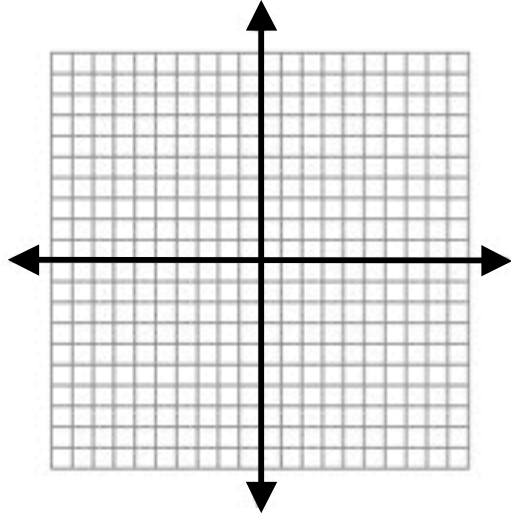


#### 4.4 Finding Slope of a Line Using Ordered Pairs

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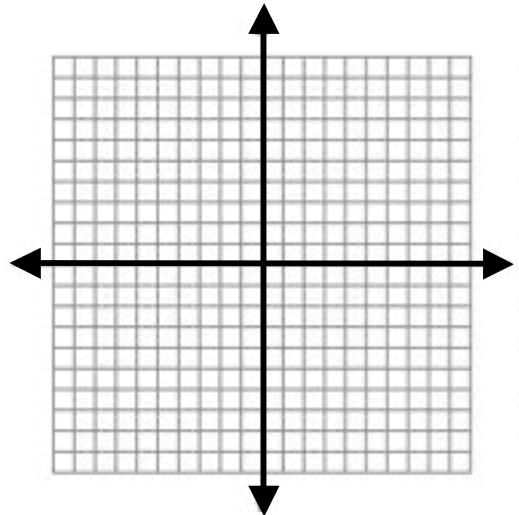
Plot the ordered pairs, then calculate the slope. (3 points each)

23)  $(-3, 2)$  &  $(-5, -2)$



$m =$  \_\_\_\_\_

24)  $(0, -3)$  &  $(4, -3)$



$m =$  \_\_\_\_\_

Calculate the slope mathematically using the given ordered pairs. (2 points each)

25)  $(2, 4)$  &  $(5, 0)$

26)  $(-2, 4)$  &  $(-2, -5)$

27)  $(-2, 5)$  &  $(4, -7)$

28)  $(-1, 2)$  &  $(0, 8)$

29)  $(-3, -5)$  &  $(4, 9)$

30)  $(3, -6)$  &  $(-6, -6)$

#### 4.6 Slope-Intercept Form of a Line

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Find the slope and the y-intercept for each equation. (2 points each)

31)  $y = 6x + 4$

$m =$  \_\_\_\_\_

$b =$  \_\_\_\_\_

32)  $3x + 4y = 16$

$m =$  \_\_\_\_\_

$b =$  \_\_\_\_\_

33)  $12x + 4y - 2 = 0$

$m =$  \_\_\_\_\_

$b =$  \_\_\_\_\_

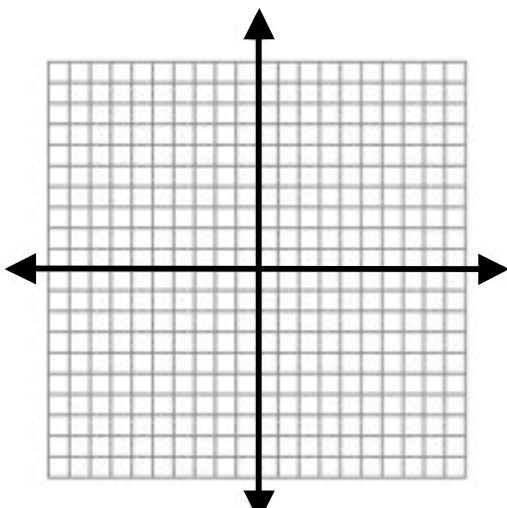
34)  $\frac{x+2}{4} = y$

$m =$  \_\_\_\_\_

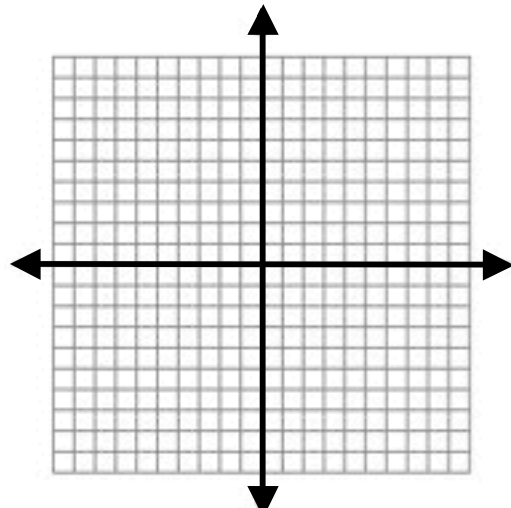
$b =$  \_\_\_\_\_

Graph each equation using slope-intercept form. (4 points each)

35)  $x + 2y - 2 = 0$



36)  $-x + 6y = -24$

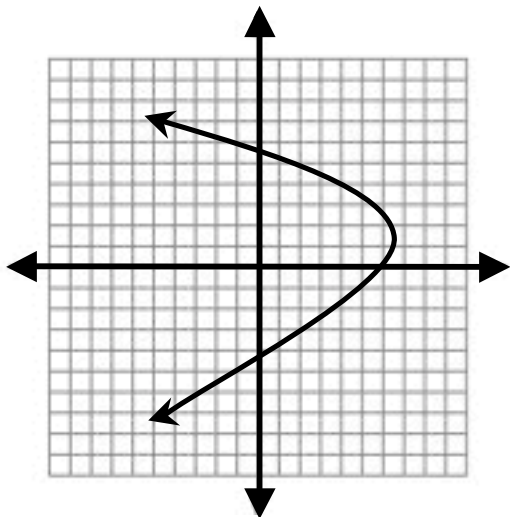


## 4.8 Functions

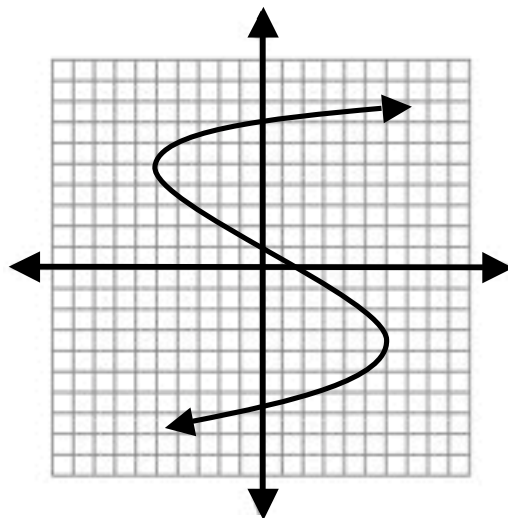
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Decide whether the graph is a function. (1 point each)

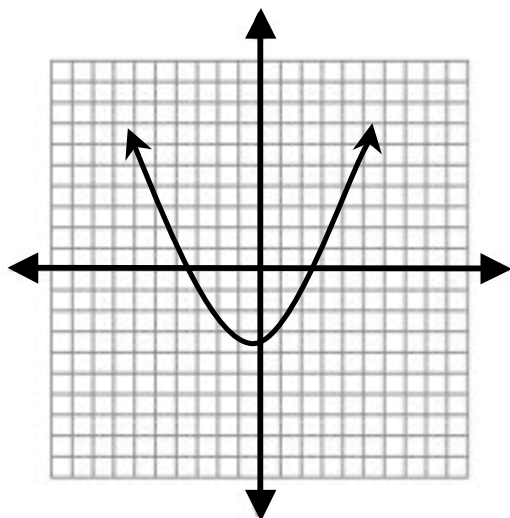
37)



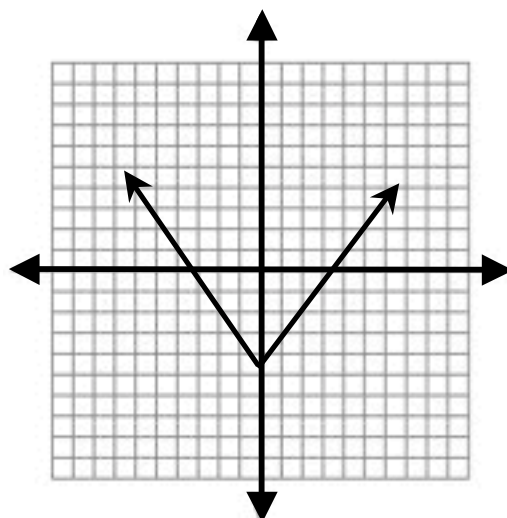
38)



39)



40)



Evaluate each function if  $x = 3$ ,  $x = 0$ , and  $x = -4$ . (3 points each)

41)  $h(x) = 5x - 9$

42)  $g(x) = -4x + 3$